

```

-185 GAATTCGGGGGTTCAAGATCACTGGACCAGCCGTGATCTCTATGCCCGAGTCTCAA
-125 CCCTCAACTGTACCCCAAGGCACCTGGGACGTCTGGACAGACCGAGTCCCGGAAGCC
-65 CCAGCACTGCCGCTGCCACACTGCCCTGAGCCCAAATGGGGAGTGAGAGGCCATAGCTG
-28.
-30 MetGlyLeuSerThrValProAspLeuLeuLeuProLeuValLeuLeuGluLeu
-5 TCTGGCATGGGCCTCTCCACCGTGCCTGACCTGCTGCTGCCGTGGTCTCCTGGAGCTG
+1
-10 LeuValGlyIleTyrProSerGlyValIleGlyLeuValProHisLeuGlyAspArgGlu
55 TTGGTGGAAATATACCCCTCAGGGGTATTGGACTGGTCCCTCACCTAGGGACAGGGAG
***
10 LysArgAspSerValCysProGlnGlyLysTyrIleHisProGlnAsnAsnSerIleCys
115 AAGAGAGATAGTGTGTCCCCCAAGGAAATATATCCACCCCTCAAAATAATTCGATTTC
30 CysThrLysCysHisLysGlyThrTyrLeuTyrAsnAspCysProGlyProGlyGlnAsp
175 TGTACCAAGTGCCACAAAGGAACCTACTTGTACAATGACTGTCCAGGCCCGGCAGGAT
50 ThrAspCysArgGluCysGluSerGlySerPheThrAlaSerGluAsnHisLeuArgHis
235 ACGGACTGCAGGGAGTGTGAGAGCGGCTCCTTCACCGCTTCAGAAACCACCTCAGACAC
70 CysLeuSerCysSerLysCysArgLysGluMetGlyGlnValGluIleSerSerCysThr
295 TGCCTCAGCTGCTCCAAATGCCGAAAGGAAATGGGTACGGTGGAGATCTCTTCTTGACACA
90 ValAspArgAspThrValCysGlyCysArgLysAsnGlnTyrArgHisTyrTrpSerGlu
355 GTGACCCGGACACCGTGTGTGGCTGCAGGAAGAACCAGTACCGGCATTATTGGAGTGAA

```

FIGURE 1B

```

***          .          ***          .
110 AsnLeuPheGlnCysPheAsnCysSerLeuCysSerLeuAsnGlyThrValHisLeuSerCys          .
415 AACCTTTCCAGTGCTTCAATTGCAGCCTCTGCCTCAATGGACCGTGACACCTCTCCTGC
          .          .          .          .
130 GlnGluLysGlnAsnThrValCysThrCysHisAlaGlyPhePheLeuArgGluAsnGlu          .
475 CAGGAGAAACAGAACACCGTGTGCACCTGCCATGCAGGTTTCTTCTAAGAGAGAAACGAG
          .          .          .          .
150 CysValSerCysSerAsnCysLysLysSerLeuGluCysThrLysLeuCysLeuProGln          .
535 TGTGTCCTCTGTAGTAACTGTAAAGAAAGCCGTGAGTGCACGAAAGTTGTGCCTACCCAG
          .          .          .          .
170 IleGluAsnValLysGlyThrGluAspSerGlyThrThrValLeuLeuProLeuValIle
595 ATTGAGAAATGTTAAGGGCACTGAGGACTCAGGCACCCACAGTGTGTTGCCCTGGTCATT
          .          .          .          .
190 PhePheGlyLeuCysLeuLeuSerLeuLeuPheIleGlyLeuMetTyrArgTyrGlnArg          .
655 TTCTTTGGTCTTTGGCCTTTTATCCCTCCTCTTCATTGGTTTAAATGTATCGCTACCAACGG
          .          .          .          .
210 TrpLysSerLysLeuTyrSerIleValCysGlyLysSerThrProGluLysGluGlyGlu          .
715 TGGAAGTCCAAGCTCTACTCCATTGTTTGTGGGAAATCGACACCTGAAAAAGACGGGGAG
          .          .          .          .
230 LeuGluGlyThrThrThrLysProLeuAlaProAsnProSerPheSerProThrProGly          .
775 CTTGAAGGAACACTACTAAGCCCCCTGGCCCCCAACCCAAAGCTTCAGTCCCCTCCAGGC

```

FIGURE 1C

```

      .      .      .      .      .      .      .      .      .      .
250 PheThrProThrLeuGlyPheSerProValProSerSerThrPheThrSerSerSerThr
835 TTCACCCCAACCTGGGCTTCAGTCCCGTGCCCAAGTTCACCTTCACCTCCAGCTCCACC

      .      .      .      .      .      .      .      .      .      .
270 TyrThrProGlyAspCysProAsnPheAlaAlaProArgArgGluValAlaProProTyr
895 TATACCCCGGTGACTGTCCCAACTTTGCGGCTCCCGCAGAGAGGTGGCACCAACCTAT

      .      .      .      .      .      .      .      .      .      .
290 GlnGlyAlaAspProIleLeuAlaThrAlaLeuAlaSerAspProIleProAsnProLeu
955 CAGGGGCTGACCCCATCCTTGCACAGCCCTCGCCTCCGACCCCATCCCCAACCCCTT

      .      .      .      .      .      .      .      .      .      .
310 GlnLysTrpGluAspSerAlaHisLysProGlnSerLeuAspThrAspAspProAlaThr
1015 CAGAA GTGGAGGACAGCGCCCAAGCCACAGAGCCCTAGACACTGATGACCCCGCGACG

      .      .      .      .      .      .      .      .      .      .
330 LeuTyrAlaValGluAsnValProProLeuArgTrpLysGluPheValArgArgLeu
1075 CTGTACGCCGTGGTGAGAAACGTGCCCCCGTTGCGCTGGAAGGAATTCGTGCGGCGCCTA

      .      .      .      .      .      .      .      .      .      .
350 GlyLeuSerAspHisGluIleAspArgLeuGluLeuGlnAsnGlyArgCysLeuArgGlu
1135 GGGCTGAGCGACCAACGAGATCGATCGGCTGGAGCTGCAGAACGGGCGCTGCCCTGCGCGAG

      .      .      .      .      .      .      .      .      .      .
370 AlaGlnTyrSerMetLeuAlaThrTrpArgArgArgThrProArgArgGluAlaThrLeu
1195 GCGCAATACAGCATGCTGGCGACCTGGAGCGGCGCACGCCGCGCGGAGGCCACGCTG

      .      .      .      .      .      .      .      .      .      .
390 GluLeuLeuGlyArgValLeuArgAspMetAspLeuLeuGlyCysLeuGluAspIleGlu
1255 GAGCTGCTGGGACCGGTGCTCCGCGACATGGACCTGCTGGGCTGCCCTGGAGGACATCGAG

```

FIGURE 1D

.
410 GluAlaLeuCysGlyProAlaAlaLeuProProAlaProSerLeuLeuArg .
1315 GAGGCGCTTGGGCCCCCGCCCTCCCGCCCGCCAGTCTTCTCAGATGAGGCTGC
1375 GCCCTGCGGCAGCTCTAAGGACCGTCCCTGCGAGATCGCCTTCCAAACCCACATTTTTC
1435 TGGAAAGGAGGGGTCTGCAGGGGCAAGCAGGAGCTAGCAGCCGCCCTACTTGGTGCTAAC
1495 CCTCGATGTACATAGCTTTTCTCAGCTGCCCTGCGCGCCCGACAGTCAGCGCTGTGCG
1555 CGCGGAGAGGTGCGCCGTGGGCTCAAGAGCCTGAGTGGGTGTTGCGAGGATGAGGG
1615 ACGCTATGCCTCATGCCCGTTTGGGTGTCCTCACCAGCAAGGCTGCTCGGGGCCCTG
1675 GTTCGTCCCTGAGCCTTTTCACAGTGCAATAAGCAGTTTTTTGTGTTTGTGTTT
1735 GTTTTGTTTTAAATCAATCATGTTACACTAATAGAAACTTGGCACTCCTGTGCCCTCTG
1795 CCTGGACAAGCACATAGCAAGCTGAACGTCTCCTAAGGCAGGGCGGAGCACGGAACAATGG
1855 GGCCCTTCAGCTGGAGCTGTGGACTTTTGTACATACACTAAAAATTCTGAAGTTAAAAAAA
1915 AACCCGAATTC

REPLACEMENT SHEET

Figure 2A

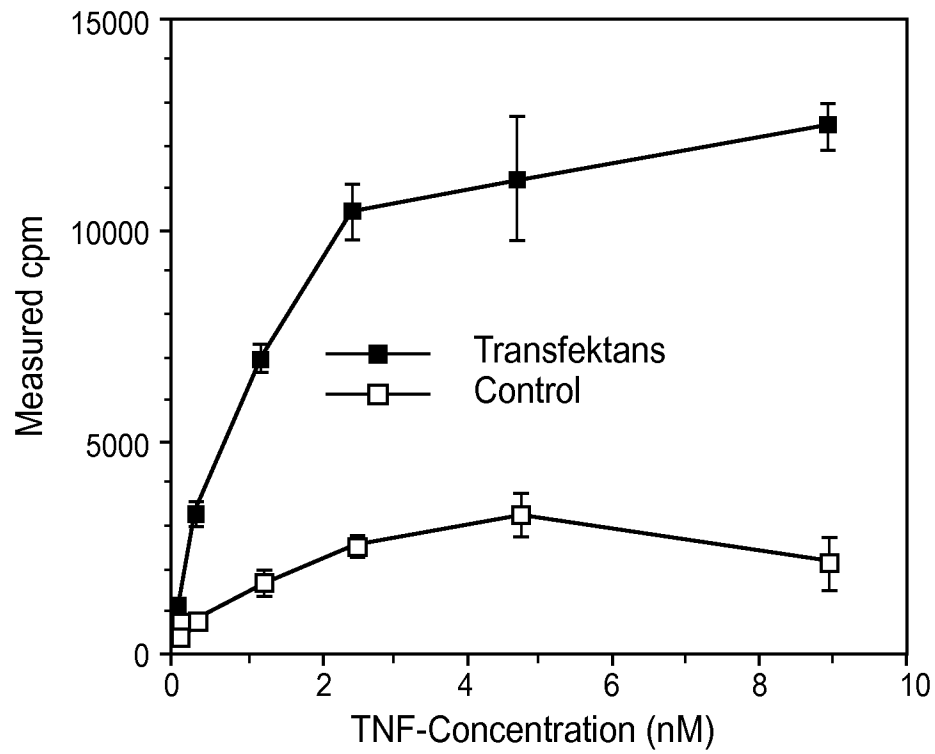
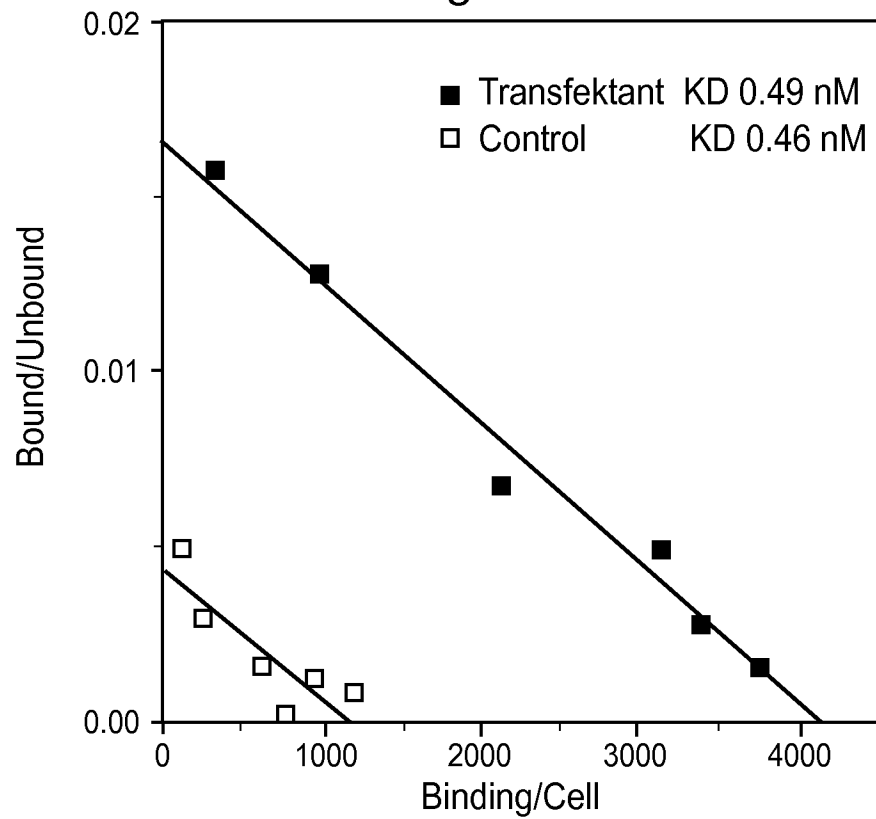


Figure 2B



REPLACEMENT SHEET

Figure 3

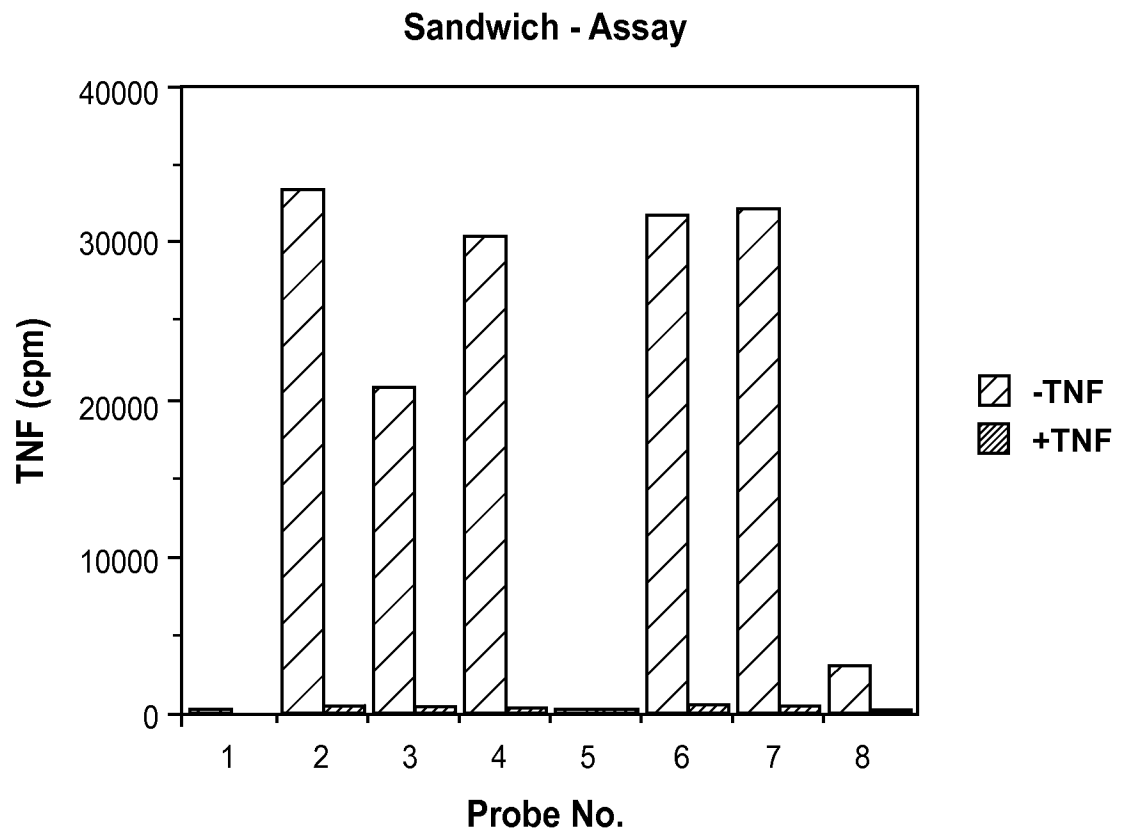


FIGURE 4A

```

      .      .      .      .      .      .      .      .      .      .
1  SerAspSerValCysAspSerCysGluAspSerThrTyrThrGlnLeuTrpAsnTrpVal
1  TCGGACTCCGTGTGACTCCTGTGAGGACAGCACATACACCCAGCTCTGGAACTGGGTT

      .      .      .      .      .      .      .      .      .      .
21 ProGluCysLeuSerCysGlySerArgCysSerSerAspGlnValGluThrGlnAlaCys
61 CCCGAGTGCTTGAGCTGTGGCTCCCGCTGTAGCTCTGACCAGGTGGAACCTCAAGCCTGC

      .      .      .      .      .      .      .      .      .      .
41 ThrArgGluGlnAsnArgIleCysThrCysArgProGlyTrpTyrCysAlaLeuSerLys
121 ACTCGGGAACAGAACCGCATCTGCACCTGCAGGCCCGGCTGGTACTGCGCGCTGAGCAAG

      .      .      .      .      .      .      .      .      .      .
61 GlnGluGlyCysArgLeuCysAlaProLeuProLysCysArgProGlyPheGlyValAla
181 CAGGAGGGGTGCCGGCTGTGCGCGCGCTGCCGAAAGTGCCGCCCGGGCTTCGGCGTGGCC

      .      .      .      .      .      .      .      .      .      .
81 ArgProGlyThrGluThrSerAspValValCysLysProCysAlaProGlyThrPheSer
241 AGACCAGGAACCTGAAACATCAGACGTGGTGTGCAAGCCCTGTGCCCCGGGACGTTCTCC

      .      .      .      .      .      .      .      .      .      .
101 AsnThrThrSerSerThrAspIleCysArgProHisGlnIleCysAsnValValAlaIle
301 AACACGACTTCATCCACGGATATTTCAGGGCCCCCACCAGATCTGTAAACGTGGTGGCCATC

      .      .      .      .      .      .      .      .      .      .
121 ProGlyAsnAlaSerArgAspAlaValCysThrSerThrSerProThrArgSerMetAla
361 CCTGGGAATGCAAGCAGGGATGCAGTCTGCACGTCCACGTCCCCCAGGAGTATGGCC

      .      .      .      .      .      .      .      .      .      .
141 ProGlyAlaValHisLeuProGlnProValSerThrArgSerGlnHisThrGlnProSer
421 CCAGGGGCAGTACACTTACCCCAGCCAGTGTCCACACGATCCCCAACACACGACGCCAAGT

```

FIGURE 4B

```

      .      .      .      .      .      .      .      .      .      .
161  ProGluProSerThrAlaProSerThrSerPheLeuLeuProMetGlyProSerProPro
481  CCAGAACCCAGCACTGCTCCAAGCACCTCCTTCTCTCCCAATGGGCCCCAGCCCCCA

      .      .      .      .      .      .      .      .      .      .
181  AlaGluGlySerThrGlyAspPheAlaLeuProValGlyLeuIleValGlyValThrAla
541  GCTGAAGGGAGCACTGGCGACTTCGCTCTTCCAGTTGGACTGATTGTGGGTGTGACAGCC

      .      .      .      .      .      .      .      .      .      .
201  LeuGlyLeuLeuIleIleGlyValValAsnCysValIleMetThrGlnValLysLysLys
601  TTGGGTCTACTAATAATAGGAGTGGTGAAGTGTGTCATCATGACCCAGGTGAAAAGAAG

      .      .      .      .      .      .      .      .      .      .
221  ProLeuCysLeuGlnArgGluAlaLysValProHisLeuProAlaAspLysAlaArgGly
661  CCCTTGTCCTGCAGAGAGAACCAAGGTGCCCTCACTTGCCCTGCCGATAAGGCCCGGGGT

      .      .      .      .      .      .      .      .      .      .
241  ThrGlnGlyProGluGlnGlnHisLeuLeuIleThrAlaProSerSerSerSerSerSer
721  ACACAGGGCCCCGAGCAGCAGCACCTGCTGATCACAGCGCCGAGCTCCAGCAGCAGCTCC

      .      .      .      .      .      .      .      .      .      .
261  LeuGluSerSerAlaSerAlaLeuAspArgArgAlaProThrArgAsnGlnProGlnAla
781  CTGGAGAGCTCGGCCAGTGCGTTGGACAGAAAGGGCGCCCACTCGGAACACAGCCACAGGCA

      .      .      .      .      .      .      .      .      .      .
281  ProGlyValGluAlaSerGlyAlaGlyGluAlaArgAlaSerThrGlySerSerAlaAsp
841  CCAGGCGTGGAGGCCAGTGGGGCCGGGAGGCCCGGCCAGCACCGGGAGCTCAGCAGAT

      .      .      .      .      .      .      .      .      .      .
301  SerSerProGlyGlyHisGlyThrGlnValAsnValThrCysIleValAsnValCysSer
901  TCTTCCCCCTGGTGGCCATGGGACCCAGGTCAATGTCACTGCATCGTGAACGTCTGTAGC

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321 SerSerAspHisSerSerGlnCysSerSerGlnAlaSerSerThrMetGlyAspThrAsp
 961 AGCTCTGACCAACAGCTCACAGTGCTCTCTCCCAAGCCAGCTCCACAATGGGAGACACAGAT

 341 SerSerProSerGluSerProLysAspGluGlnValProPheSerLysGluGluCysAla
 1021 TCCAGCCCCCTCGGAGTCCCCGAAGGACGAGCAGGTCCCCCTTCTCCAAGGAGGAATGTGCC

 361 PheArgSerGlnLeuGluThrProGluThrLeuLeuGlySerThrGluGluLysProLeu
 1081 TTTCGGTCAACAGCTGGAGACGCCAGAGACCCCTGCTGGGAGCACCGAAGAGAACCCCTG

 381 ProLeuGlyValProAspAlaGlyMetLysProSer
 1141 CCCCTTGGAGTGCTGATGCTGGGATGAAGCCCCAGTTAACCAAGCCGGTGTGGGCTGTGT
 1201 CGTAGCCAAGTGCTGAGCCCTGGCAGGATGACCTCGGAAGGGCCCTGGTCCTTCCA
 1261 GGCCCCAACCACTAGGACTCTGAGGCTCTTCTGGGCCAAGTTCTCTAGTGCCCTCCAC
 1321 AGCCGCAGCCTCCTCTGACCTGCAGGCCAAGAGCAGAGCAGGAGTTGTGGAAAGCCT
 1381 CTGCTGCCATGGCGTGTCCTCTCGGAAGGCTGGCTGGGCATGGACGTTTCGGGGCATGCT
 1441 GGGCAAGTCCCTGAGTCTCTGTGACCTGCCCGCCAGCTGCACCTGCCAGCCTGGCTT
 1501 CTGGAGCCCCTTGGGTTTTTTTGTGTTTGTGTTTGTGTTTGTGTTTCTCCCCCTGGGC
 1561 TCTGCCCAGCTCTGGCTTCCAGAAAACCCAGCATCCTTTCTGCAGAGGGCTTTCTGG
 1621 AGAGGAGGGATGCTGCTGAGTCACCCATGAAGACAGGACAGTGCTTCAGCCTGAGGCTG
 1681 AGACTGCGGGATGTCCTGGGGCTCTGTGCAGGGAGGAGTGCGAGCCCTGTAGGGAACG
 1741 GGGTCCCTCAAGTTAGCTCAGGAGGCTTGGAAGCATCACCTCAGGCCAGGTGCAGTGGC
 1801 TCACGCCATATGATCCCAGCACTTTGGGAGGCTGAGCGGGTGATCACCTGAGGTTAGGA
 1861 GTTCGAGACCAGCCTGGCCAACATGGTAAAACCCCATCTCTACTAAAAATACAGAAATTA

FIGURE 4D

1921 GCCGGCGTGTTGGCGGCACCTATAGTCCCAGCTACTCAGAAGCCTGAGGCTGGGAAAT
1981 CGTTTGAAACCCGGGAAGCGGAGGTTGCAGGAGCCGAGATCACGCCACTGCACTCCAGCC
2041 TGGGCGACAGAGCGAGTCTGTCTCAAAAGAAAAAAGAACCCGCTCCAATGCT
2101 AACTTGTCCCTTTGTACCATGGTGTGAAAGTCAGATGCCCCAGAGGCCCCAGGCAGGCCAC
2161 CATAATCAGTGCTGTGGCCTGGGCAAGATAACGCACCTTCTAACTAGAAATCTGCCAATT
2221 TTTAAAAAAGTAAGTACCACTCAGGCCAAACAAGCCAAAGCCAAACTCTGCCAGC
2281 CACATCCAACCCCACTGCCATTTGCAACCTCCGCCTTCACTCCGGTGTGCCCTGCAG

REPLACEMENT SHEET

```

1  MAPVAVWAAL AVGLELWAAA HALPAQVAPT FYAPEPGSTC RLREYYDQTA
51  QMCCSKCSPG QHAKVFCTKT SDTVCDSCED STYTQLWNWV PECLSCGSRG
101 SSDQVETQAC TREQNRICTC RFGWYCALSK QEGCRLCAPL RKCRPGFGVA
151 RPGTETSDVV CKPCAPGTF5 NTTSSTDICR PHQICNVVAI PGNASMDAVC
201 TSTSPTRSMA PGAVHLPQPV STRSQHTQPT PEPSTAPSTS FLLPMGSPSP
251 AEGSTGDFAL PVGLIVGVTG LGLLIIGVVN CVINTQVKKK PLCLQREAKV
301 PHLPADKARG TQGPEQQHLL ITAPSSSSSS LESSASALDR RAPTRNQFQA
351 PGVEASGAGE ARASTGSSDS SPGGHGTQVN VTCIVNVCSS SDHSSQCSSQ
401 ASSTMGDTDS SPSESFKDEQ VPFSKEECAF RSQLETPETL LGSTEERPLP
451 LGVPDAGMKP S

```

FIGURE 5

FIGURE 6A

```

1 S D T V C D S C E D S T Y T Q L W N W V
1 tcggacaccgtgtgtgactcctgtgaggacagcacatacacccagctctggaactgggtt
1 10 20 30 40 50

21 P E C L S C G S R C S S D Q V E T Q A C
61 ccgagtgccttgagctgtggctcccgtgtagctctgaccaggtggaactcaagcctgc
61 70 80 90 100 110

41 T R E Q N R I C T C R P G W Y C A L S K
121 actcgggaacagaaaccgcattctgcacctgcagggccggctggtactgcgcgctgagcaag
121 130 140 150 160 170

61 Q E G C R L C A P L P K C R P G F G V A
181 caggaggggtgccggctgtgcgcgcgctgccgaagtgccgccgggcttcggcgtggcc
181 190 200 210 220 230

81 R P G T E T S D V V C K P C A P G T F S
241 agaccaggaactgaaacatcagacgtggtgtgcaagccctgtgccccggggacgttctcc
241 250 260 270 280 290

101 N T T S S T D I C R P H Q I C N V V A I
301 aacacgacttcatccacggatatttgaggccccaccagatctgtaacgtggtggccatc
301 310 320 330 340 350

```

FIGURE 6B

121 P G N A S R D A V C T S T S P T R S M A
361 cctgggaatgcaagcagggatgcagtctgcacgtccacgtccccaccgagtagtgcc
361 370 380 390 400 410
141 P G A V H L P Q P V S T R S Q H T Q P S
421 ccagggcagtagcacttacccagccagtcagtgccacacgattcccaacacacgcagccaagt
421 430 440 450 460 470
161 P E P S T A P S T S F L L P M G P S P P
481 ccagaaccagcactgctccaagcacctccttcctgctcccaatgggccccagccccc
481 490 500 510 520 530
181 A E G S T G D F A L P V G L I V G V T A
541 gctgaaggaggcactggcgacttcgctcttcagttccagttggactgattgtgggtgtgacagcc
541 550 560 570 580 590
201 L G L L I I G V V N C V I M T Q V K K K
601 ttgggtctactaataataggagtggtgaactgtgtcatcatgaccagggtgaaaaagaag
601 610 620 630 640 650
221 P L C L Q R E A K V P H L P A D K A R G
661 cccttgtcctgcagagagaagccaagtgccctcacttgcccgataaggccggggt
661 670 680 690 700 710

FIGURE 6C

241 T Q G P E Q Q H L L I T A P S S S S S
721 acacagggcccgagcagcagcacctgctgatcacagcgccgagctccagcagcagctcc
721 730 740 750 760 770

261 L E S S A S A L D R R A P T R N Q P Q A
781 ctggagagctcggccagtgcggttgacagaaggcgccactcggaaccagccacaggca
781 790 800 810 820 830

281 P G V E A S G A G E A R A S T G S S A D
841 ccaggcgtggaggccagtggggcccgggagggcccgccagcaccgggagctcagcagat
841 850 860 870 880 890

301 S S P G G H G T Q V N V T C I V N V C S
901 tcttcccctggtggccatgggaccagggtcaatgtcacctgcctcgtgaacgtctgtagc
901 910 920 930 940 950

321 S S D H S S Q C S S Q A S S T M G D T D
961 agctctgaccacagctcacagtgctcctcccaggccagctccacaatgggagacacagat
961 970 980 990 1000 1010

341 S S S P S E S P K D E Q V P F S K E C A
1021 tccagcccctcggagtcctccgaaggacgagcaggtcccccttctccaaggagggaatgtgcc
1021 1030 1040 1050 1060 1070

FIGURE 6D

361	F	R	S	Q	L	E	T	P	E	T	L	L	G	S	T	E	K	P	L
1081	t	t	c	g	t	c	a	c	a	g	t	g	g	a	c	c	c	t	g
1081	t	t	c	g	t	c	a	c	a	g	t	g	g	a	c	c	c	t	g
					1090			1100			1110		1120					1130	
381	P	L	G	V	P	D	A	G	M	K	P	S							
1141	c	c	c	t	t	g	a	g	t	g	g	a	c	c	c	a	g	t	a
1141	c	c	c	t	t	g	a	g	t	g	g	a	c	c	c	a	g	t	a
1201	c	g	t	a	g	c	c	a	a	g	t	g	g	c	t	g	a	c	c
1201	c	g	t	a	g	c	c	a	a	g	t	g	g	c	t	g	a	c	c
1261	g	g	c	c	c	c	a	c	c	a	t	a	g	a	c	t	c	t	a
1261	g	g	c	c	c	c	a	c	c	a	t	a	g	a	c	t	c	t	a
1321	a	g	c	c	g	c	a	g	c	c	t	c	t	g	a	c	c	a	a
1321	a	g	c	c	g	c	a	g	c	c	t	c	t	g	a	c	c	a	a
1381	c	t	g	c	t	g	c	c	a	a	g	c	t	g	g	c	a	t	g
1381	c	t	g	c	c	a	a	g	c	c	t	g	g	c	a	t	g	g	c
1441	g	g	g	c	a	a	g	t	c	c	c	c	c	a	g	c	c	c	c
1441	g	g	g	c	a	a	g	t	c	c	c	c	c	a	g	c	c	c	c
1501	c	t	g	g	a	c	c	c	t	t	t	t	t	g	t	t	t	t	g
1501	c	t	g	g	a	c	c	c	t	t	t	t	t	g	t	t	t	t	g
1561	t	c	t	g	c	c	a	g	c	t	c	t	c	c	a	a	a	a	c
1561	t	c	t	g	c	c	a	g	c	t	c	c	a	a	a	a	a	a	c
1621	a	g	a	g	a	g	a	g	a	g	a	g	a	g	a	g	a	g	a
1621	a	g	a	g	a	g	a	g	a	g	a	g	a	g	a	g	a	g	a
					1630			1640			1650		1660					1670	

FIGURE 6E

1681 agactgcgggatggtcctggggctctgtgcaggaggaggtggcagccctgtagggaacg
1681 1690 1700 1710 1720 1730
1741 gggtccttcaagttagctcaggaggcttggaagcatcacctcaggccaggtgcagtggc
1741 1750 1760 1770 1780 1790
1801 tcacgcctatgatcccagcactttgggaggctgaggcgggtggatcacctgaggttagga
1801 1810 1820 1830 1840 1850
1861 gttcgagaccagcctggccaacatggtaaaaccccatctctactaaaaatacacagaaatta
1861 1870 1880 1890 1900 1910
1921 gccgggcgtggtggcggcacctatagtccagctactcagaagcctgaggctgggaaat
1921 1930 1940 1950 1960 1970
1981 cgtttgaacccgggaagcggagggttgcaaggagccgagatcacgccactgcactccagcc
1981 1990 2000 2010 2020 2030
2041 tgggcgacagagcgagagtctgtctcaaaagaaaaaaagcacccgctccaaatgct
2041 2050 2060 2070 2080 2090
2101 aacttgtccttttgtaccatggtgtgaaagtcagatgccagagggccagggcagccac
2101 2110 2120 2130 2140 2150
2161 catattcagtgtgtggcctgggcaagataacgcacttctaaactagaaatctgccaat
2161 2170 2180 2190 2200 2210
2221 tttaaaaaagtaagtaccactcaggccaacaaagccaagcaaaactctgccagc
2221 2230 2240 2250 2260 2270
2281 cacatccaacccccacctgccatttgcacccctccgccttcaactccggtgtgcctgcag
2281 2290 2300 2310 2320 2330